

JUL 2 2 1999 99

Form PTO-144 (REV. 8-83)	19	US Dept. of Commerc PATENT & TRADEMARK OFFICE		ATTY D 102290	OCKET NO.	PLE BI	ADEMARK OF	APPLICATION NO. 09/202,096			
INFORMATION DISCLOSURE STATEMENT											
(Use several sheets if necessary)			APPLICANT David Mark HADDLETON								
				FILING DATE February 1, 1999				GROUP			
U.S. PATENT DOCUMENTS											
EXAMINER INITIAL				DATE NAM		E		CLASS	SUB CLASS		
PIT		5,763,548	6/1	998	MATYJAS	ZEWSKI et	al.	_			
	_			-							
FOREIGN PATENT DOCUMENTS											
	-т	FOREIC	JN P.	ATENT DO	CUMENTS				T		
RH		DOCUMENT NUMBER		DATE		COUNTRY			CLASS	SUB CLASS	
(		WO 98/03521	1/1	998	WIPO						
rH		WO 96/30421	10/	1996	WIPO				<u> </u>		
		WO 97/18247	5/1	997	WIPO						
			_				•				
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)										
RH	WANG, Yun-Pu et al., "Synthesis and Selective Catalytic Oxidation Properties of Polymer-Bound Melamine Copper(II) Complex", Reactive & Functional Polymers, 1997, Vol. 33, pages 81-85.										
, ,,	-	GNODOD V VI, T T T IID. T.	<b>.</b>					. 104			
		SVOBODA, Michael et al., "Diazadien-Nickel-Alkyle", <u>Journal of Organometallic Chemistry</u> , 1980, Vol., 191, pages 321-328.									
	_										
		KOTEN, Gerard Van et al., "1,4-Diaza- 1,3-butadiene (a-Diimine) Ligands: Their Coordination Modes and the Reactivity of Their Metal Complexes", Advances in Organometallic Chemistry, 1982, Vol. 21, pages 151-239.									
	•										
		SAWAMOTO, Mitsuo et al., "Design and Mechanism of Living Cationic and Radical Polymerizations", <u>International Symposium on Ionic Polymerization</u> , Istanbul Technical University, September 4-8, 1995, page 11.									
									·		
   PH	MITSURU, Kato et al., "Polymerization of Methyl Methacrylate with the Carbon Tetrachloride/Dichlorotris- (triphenylphosphine) ruthenium (II)/Methylaluminum Bis (2,6-di-tert-butylphenoxide) Initiating System: Possibility of Living Radical Polymerization", Macromolecules, 1995, Vol. 28, pages 1721-1723.										
		<u> </u>					<del>-</del> <u>-</u>				
EXAMINER	Rbè	X Harlo					DATE CO		ERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.											



Sheet 2 of 2 ATTY DOCKET NO. Form PTO-1449 US Dept. of Commerce APPLICATION NO. PATENT & TRADEMARK OFFICE (REV. 8-83) 102290 09/202,096 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) **APPLICANT** David Mark HADDLETON **FILING DATE GROUP** February 1, 1999 17547 1712 **U.S. PATENT DOCUMENTS EXAMINER** SUB INITIAL DOCUMENT NUMBER DATE **NAME CLASS CLASS** FOREIGN PATENT DOCUMENTS **SUB** DOCUMENT NUMBER DATE COUNTRY **CLASS CLASS** OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) WANG, Jin-Shan, et al., "Controlled/"Living" Radical Polymerization. Halogen Atom Transfer Radical Polymerization Promoted by a Cu(I)/Cu(II) Redox Process", Macromolecules, 1995, Vol. 28 pages, 7901-7910. RU PERCEC, Virgil et al., "Living" Radical Polymerization of Styrene Initiated by Arenesulfonyl Chlorides and Cu<sup>1</sup>(bpy)<sub>n</sub> Cl, Macromolecules, 1995, Vol. 28, pages 7970-7972. PERCEC, Virgil et al., "Metal Catalyzed "Living" Radical Polymerization of Styrene Initiated with Arenesulfonyl Chlorides. From Heterogeneous to Homogeneous Catalysis", Macromolecules, 1996, Vol. 29, pages 3665-3668. NISHIKAWA, Tomotaka, et al., "Evidence for Living Radical Polymerization of Methyl Methacrylate with Ruthenium Complex: Effects of Protic and Radical Compounds and Reinitiation from the Recovered Polymers", Macromolecules, 1997, Vol. 30, pages 2244-2248. HADDLETON, David M., "Identifying the Nature of the Active Species in the Polymerization of Methacrylates: Inhibition of Methyl Methacrylate Homopolymerizations and Reactivity Ratios for Copolymerization of Methyl Methacrylate/n-Butyl Methacrylate in Classical Anionic, Alkyllithium/Trialkylaluminum-Initiated, Group Transfer Polymerization, Atom Transfer Radical Polymeriation, Catalytic Chain Transfer, and Classical Free Radical Polymerization", Macromolecules, 1997, Vol. 30, pages 3992-3998.

**EXAMINER** 

**DATE CONSIDERED** 3.21.00

Examiner:

M

Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (REV. 8-83)	Dept. of Commerce PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. 102290				APPLICATION NO. 09/202,096					
INFORM	ATION DISCLOSURE STATEMENT										
(1	(Use several sheets if necessary)			APPLICANT(S) David Mark HADDLETON							
		FILING I February			GROUP 1713						
	U.S. I	PATI	ENT DOCU	MENTS		1					
EXAMINER INITIAL	INITIAL DOCUMENT NUMBER I			DATE NAME			CLASS	SUB CLASS			
25 RH	4,728,706		1988	Farnham et al.							
	4,940,760		1990	Boettcher et al.							
Kit	5,763,548	06/	1998	98 Matyjaszewski et al.							
	FOREIG	N PA	ATENT DO	CUMENTS			T				
	DOCUMENT NUMBER		DATE	COUNTRY			CLASS	SUB CLASS			
not	WO 98/01480	01/	1998	WIPO			$\sim$				
RU	WO 97/18247	05/	1997	WIPO							
	OTHER DOCUMENTS (Incl	ludin	g Author,	Title, Date, Pertinent Page	es, etc.)						
	M. Svoboda et al., <u>Diazadien-Nickel-A</u>	lkyl	e, Journal o	f Organometallic Chemis	try, Vol. 19	91 (198	0), pp. 321-3	328.			
RH	G. Van Koten et al., 1, 4-Diaza-1, 3-butadiene (α-Diimine) Ligands: Their Coordination Modes and the Reactivity of Their Metal Complexes, Advances in Organometallic Chemistry, Vol.21, (1982), pp. 151-239.							tivity of			
	J. Wang et al., Controlled/"Living" Radical Polymerization. Halogen Atom Transfer Radical Polymerization Promot a Cu(I)/Cu(II) Redox Process, Macromolecules, Vol. 28, (1995), pp. 7901-7910.										
	V. Percec et al., "Living" Radical Polymerization of Styrene Initiated by Arenesulfonyl Chlorides and Cu <sup>I</sup> (bpy)nCI, Macromolecules, Vol. 28, (1995), pp. 7970-7972.										
	M. Kato et al., Polymerization of Methyl Methacrylate with the Carbon Tetrachloride/Dichlorotris- (triphenylphosphine)ruthenium(II)/Methylaluminum Bis(2,6-di-tert-butylphenoxide) Initiating System: Possibility of Living Radical Polymerization, Macromolecules, Vol. 28, (1995), pp. 1721-1723.										
	C. Granel et al., Controlled Radical Polymerization of Methacrylic Monomers in the Presence of a Bis(ortho-chelated)  Arylnickel(II) Complex and Different Activated Alkyl Halides, Macromolecules, Vol. 29, (1996), pp. 8576-8582.										
	D. Haddleton et al., <u>Identifying the Nature of the Active Species in the Polymerization of Methacrylates: Inhibition of Methyl Methacrylate Homopolymerizations and Reactivity Ratios for Copolymerization of Methyl Methacrylate/n-Butyl Methacrylate in Classical Anionic, Alkyllithium/Trialkylaluminum-Initiated, Group Transfer Polymerization, Catalytic Chain Transfer, and Classical Free Radical Polymerization, Macromolecules, Vol. 30, (1997), pp. 3992-3998.</u>										
K. Matyjaszewski et al., <u>Controlled/"Living" Radical Polymerization</u> . <u>Kinetics of the Homogeneous Atol Radical Polymerization of Styrene</u> , J. Am. Chem. Soc., Vol. 119, (1997), pp. 674-680.							ous Atom Tra	ansfer			
	·										
EXAMINER	best Harl				DATE CO	ONSID	ERED				
l l	al if citation considered, whether or not cit formance and not considered. Include copy of					line th	rough citati	on if not in			

Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT				ATTY DOCKET NO.  102290  AU6 1 3 1999 & APPLICATION NO. 09/202,096								
(Use several sheets if necessary)				APPLICANT(S)								
	İ	David HADDLETON										
	FILING I February				GROUP 1754-1713							
U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOC	CUMENT NUMBER		DATE		NAME	(E		CLASS	SUB CLASS		
kU.	5,807,937		09/1998		Matyjaszewski et al.							
			<u> </u>		<u> </u>	<del></del> .						
			<u> </u>			· · · · · · · · · · · · · · · · · · ·	• • • • • • •					
				<del></del>				• •				
			$\vdash$	<del></del> -	<u> </u>	<del></del>	•					
		FOREIC	JN P/	ATENT DO	CUMENTS				<u>i                                    </u>			
							SUB					
	DOC	CUMENT NUMBER	I	DATE COUNTRY		RY	CL		CLASS			
			<u> </u>									
			<del> </del>	<del></del>								
			<del>                                     </del>									
	·		<del> </del>									
		OTHER DOCUMENTS (Inc	Ludin	2 Author, 7	 	inent Page	s. etc.)					
					, _ ,			) <u>T</u> C	<del></del>			
	i-m.d								<u> </u>			
								700	<del>- 10                                   </del>	7		
	A S IV											
	11 S999 PRC											
	,							01		<del></del>		
				_, , ,	* '							
EXAMINER /	Wed &	tail					DATE CO		ERED			
		nsidered, whether or not cit						line th	rough citation	on if not in		